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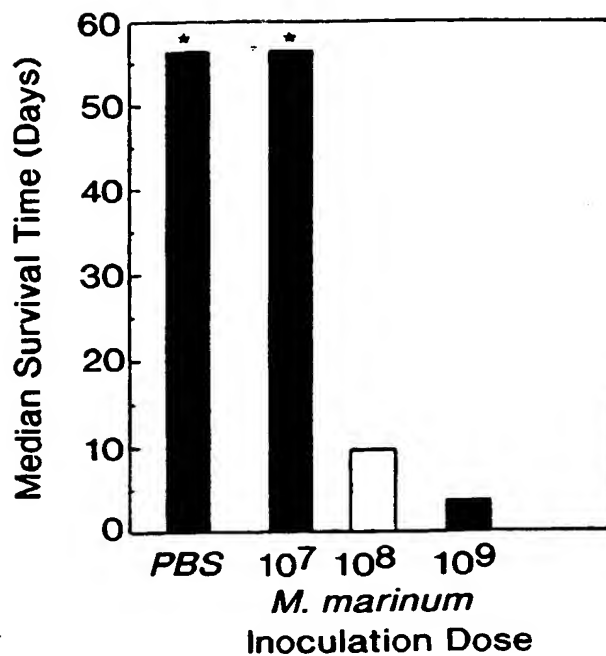


FIG. 1

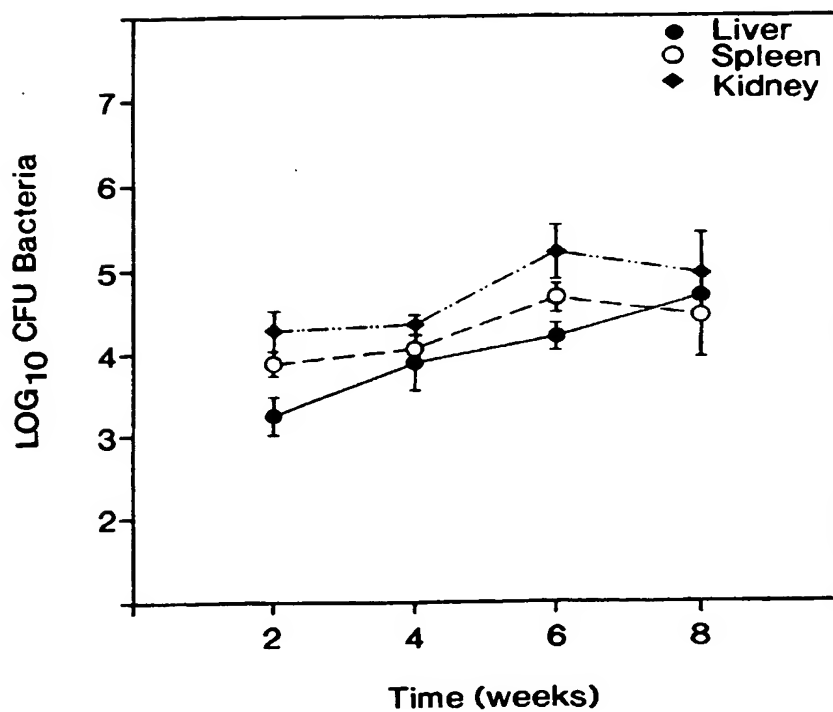


FIG. 2

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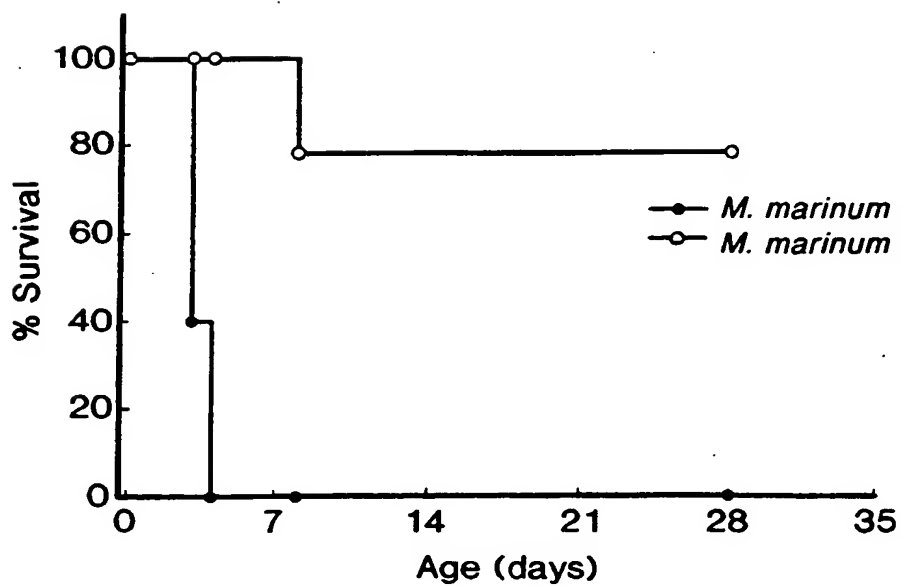
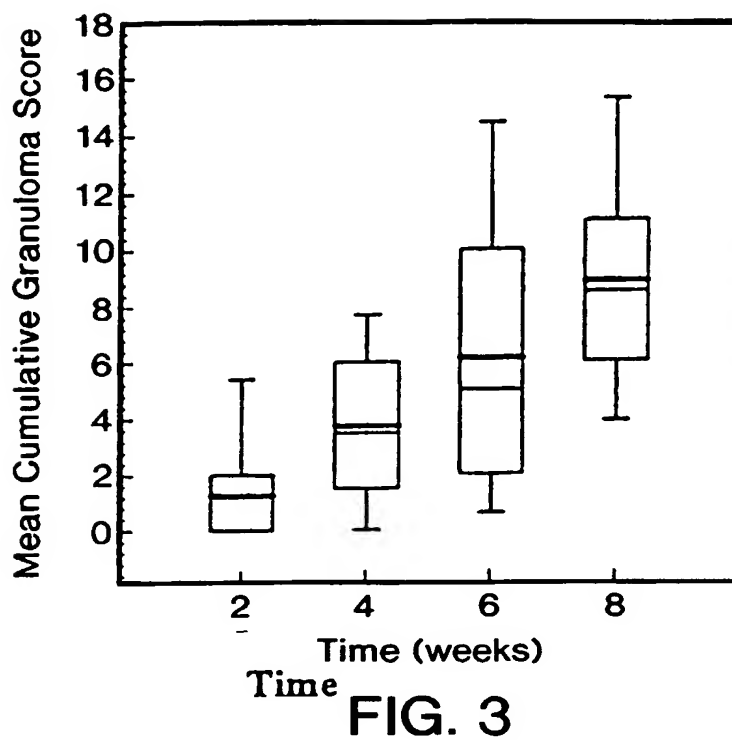


FIG. 4

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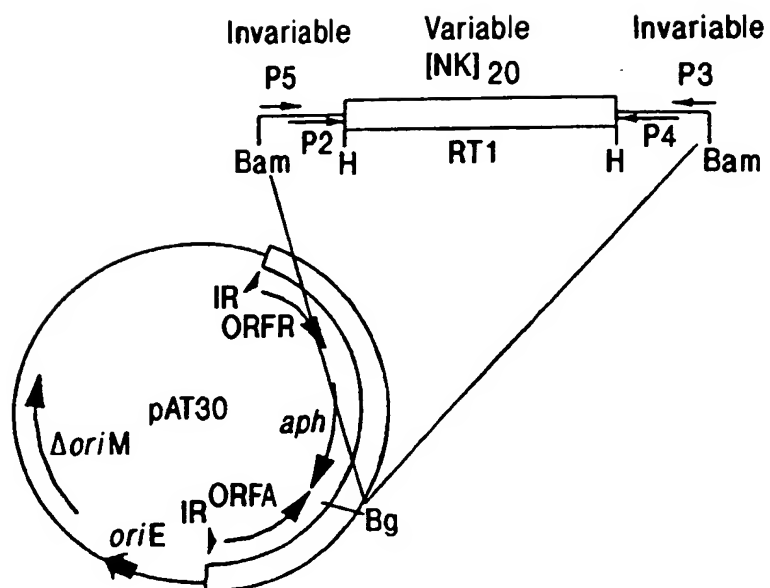


FIG. 5

Construction of *M. marinum* signature-tagged mutant library

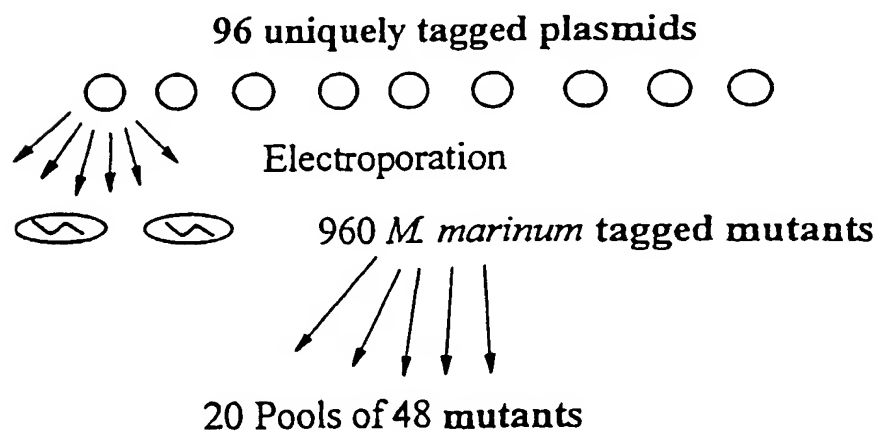


FIG. 6

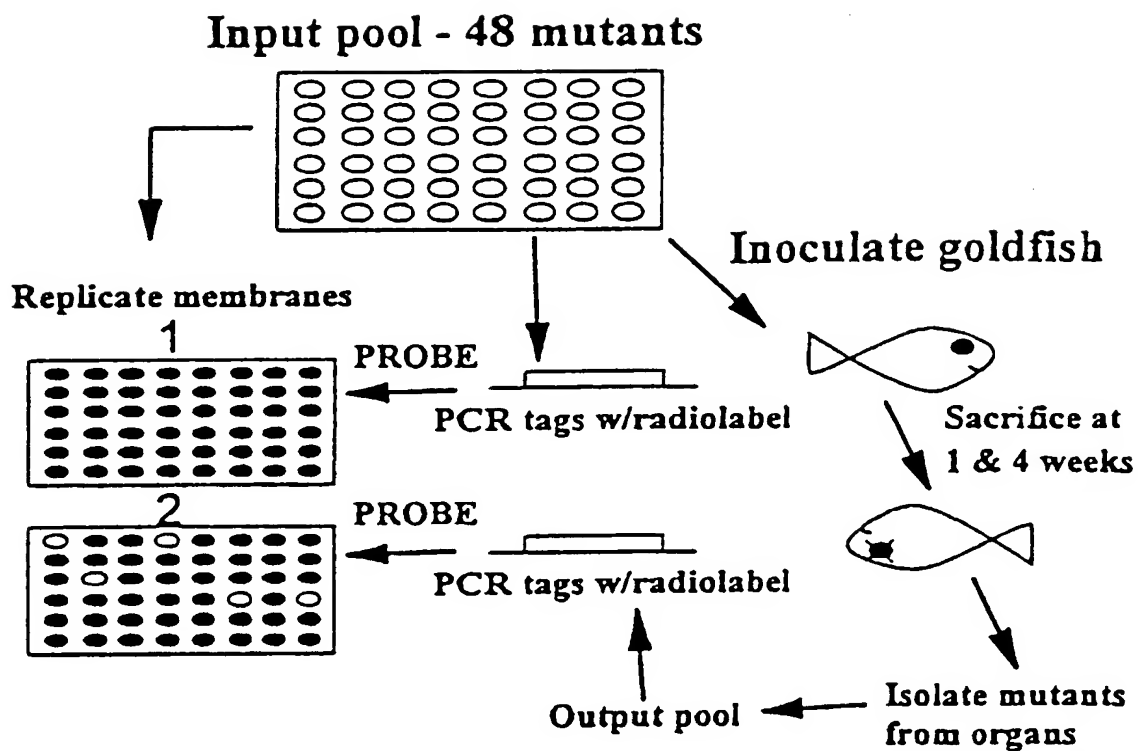
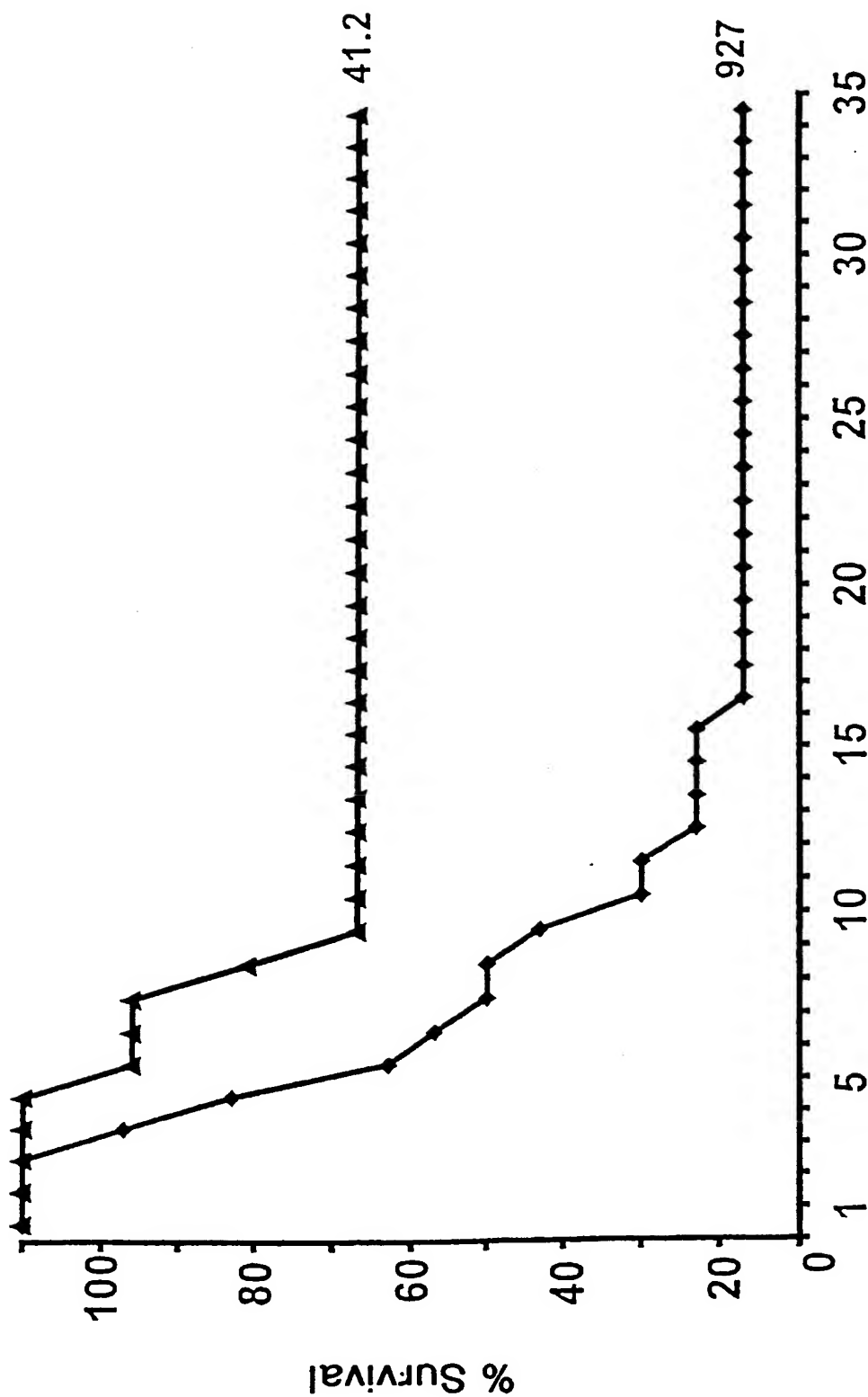
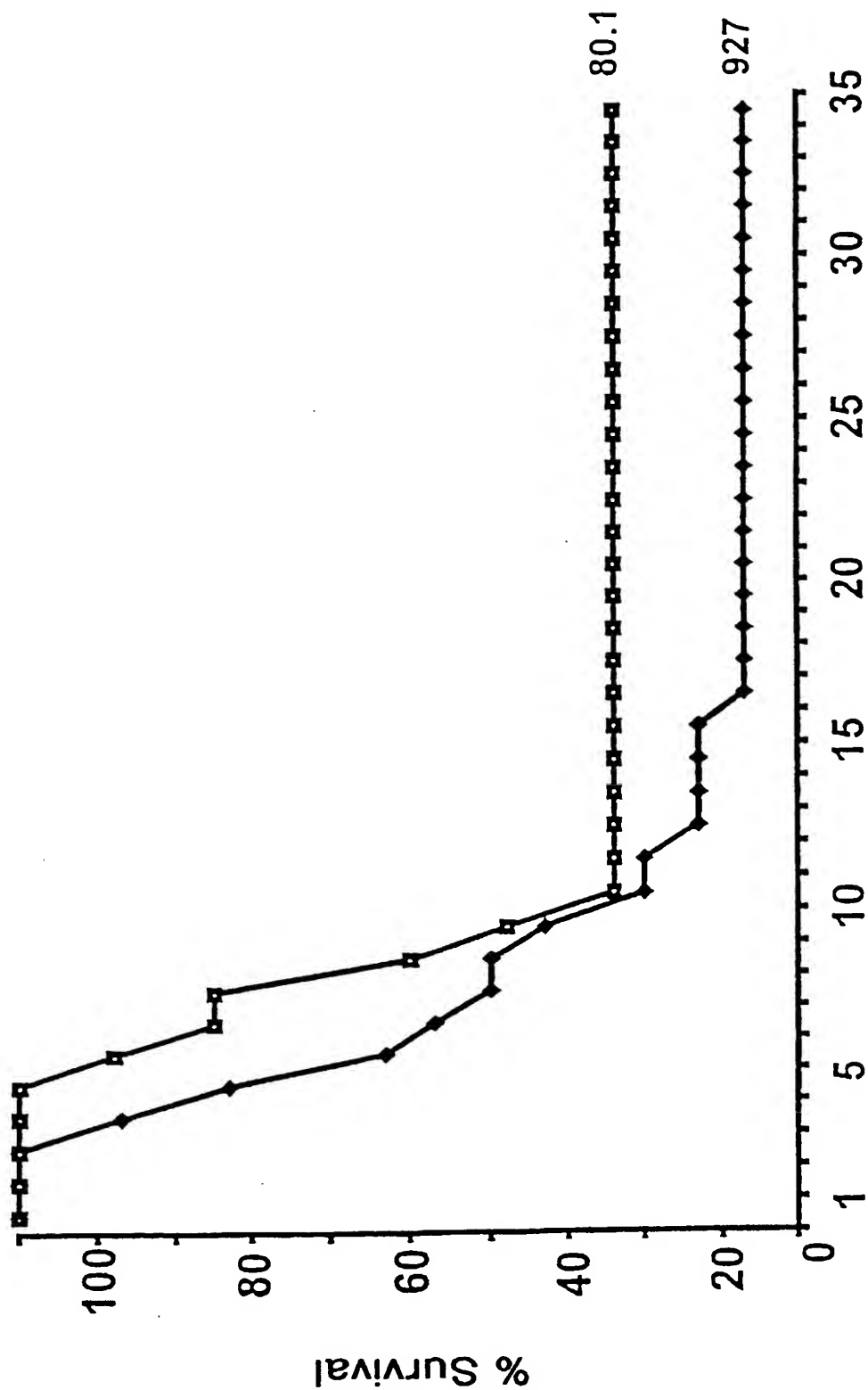


FIG. 7



Age (days)

FIG. 8



Age (days)

FIG. 9

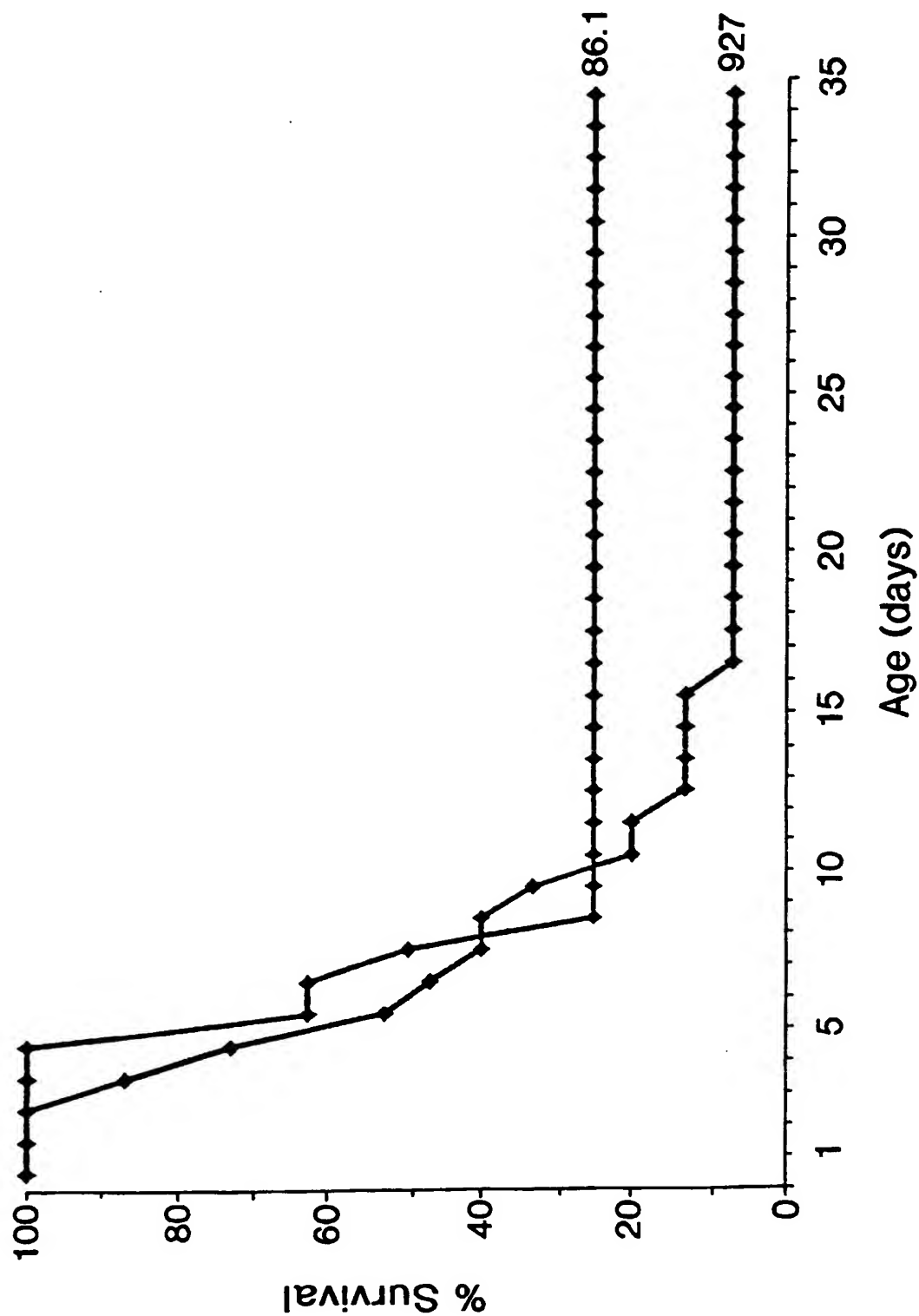


FIG. 10

Amplification of genomic DNA sequences flanking insertion sequences

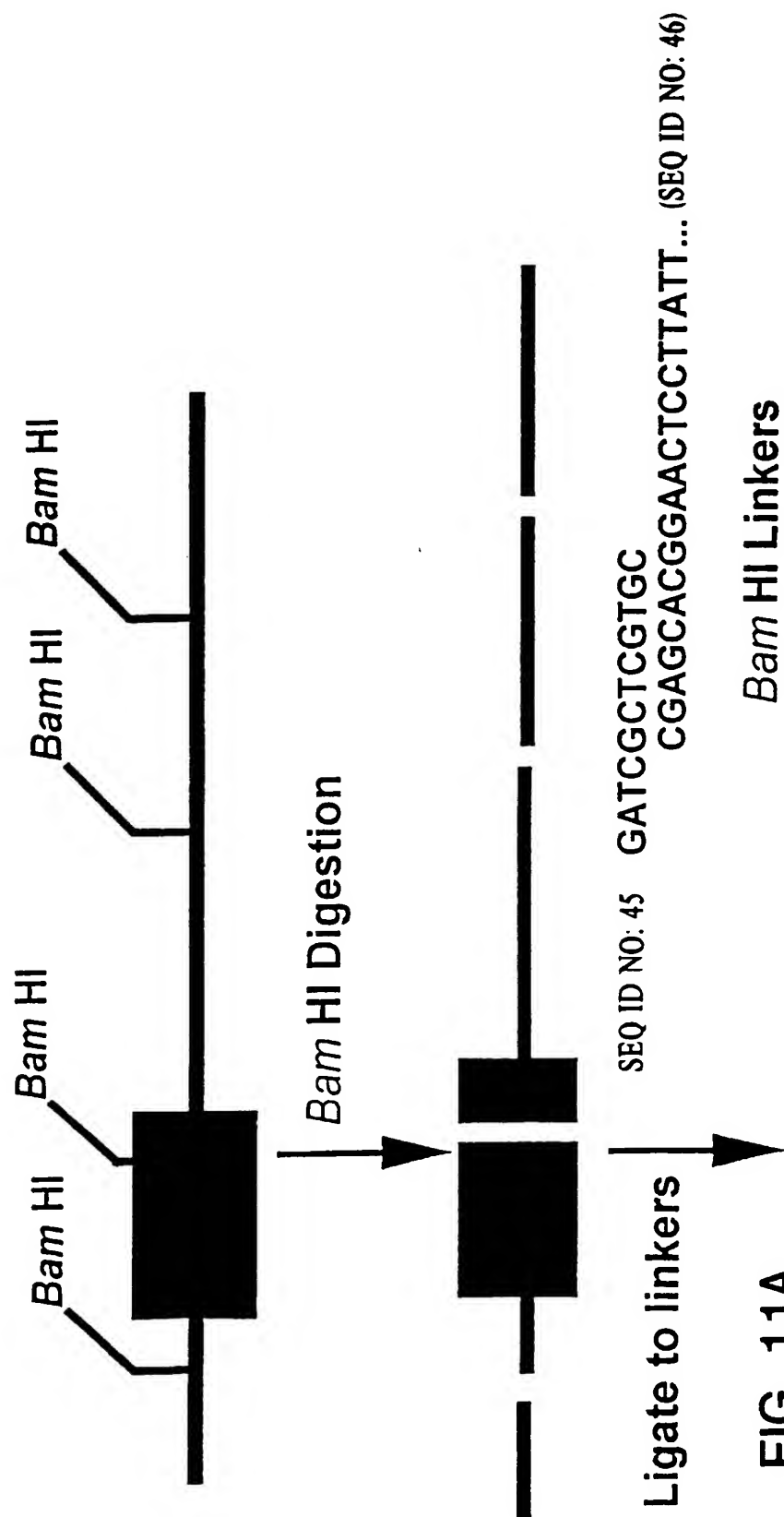


FIG. 11A

Ligation-mediated PCR

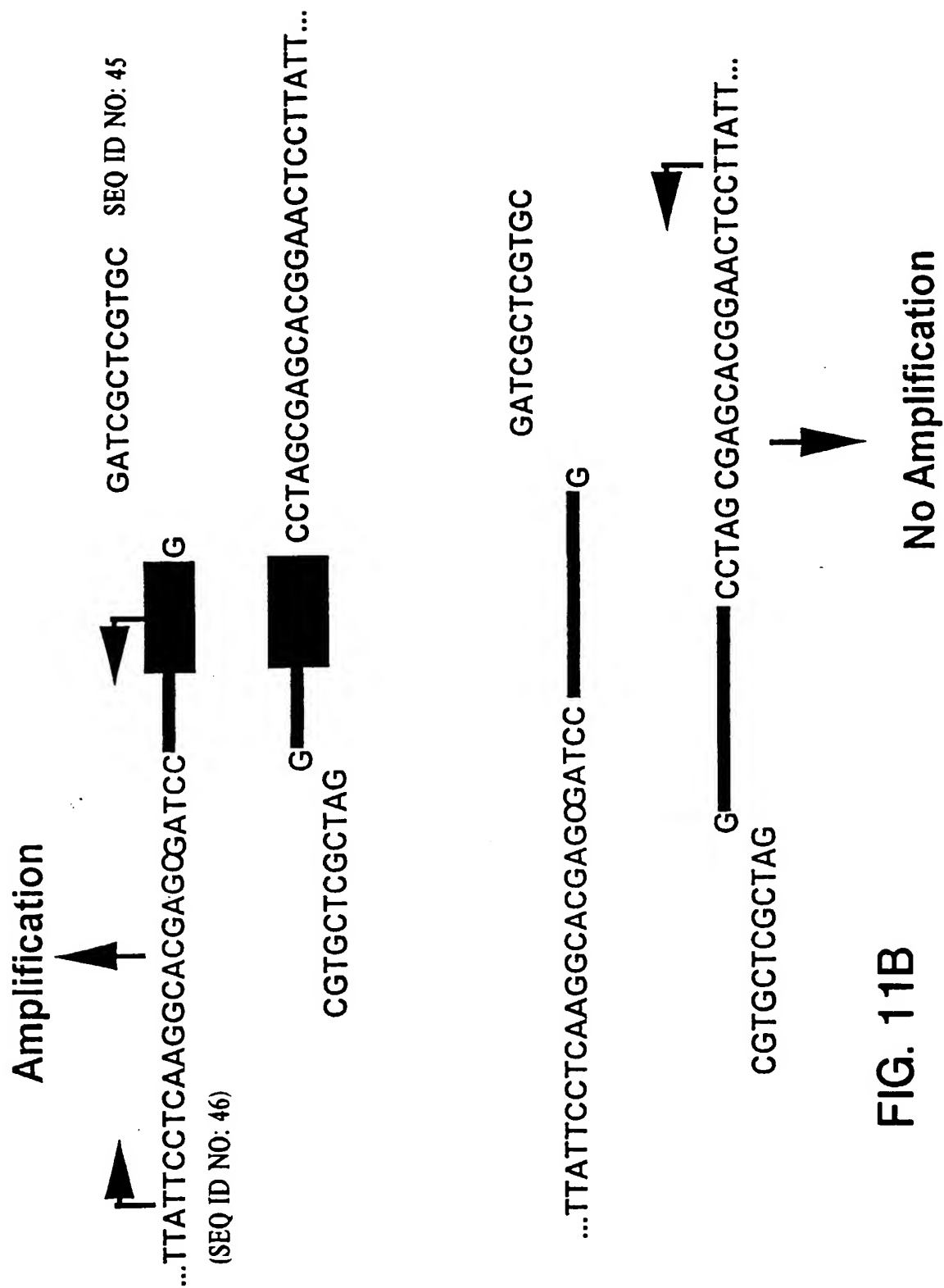
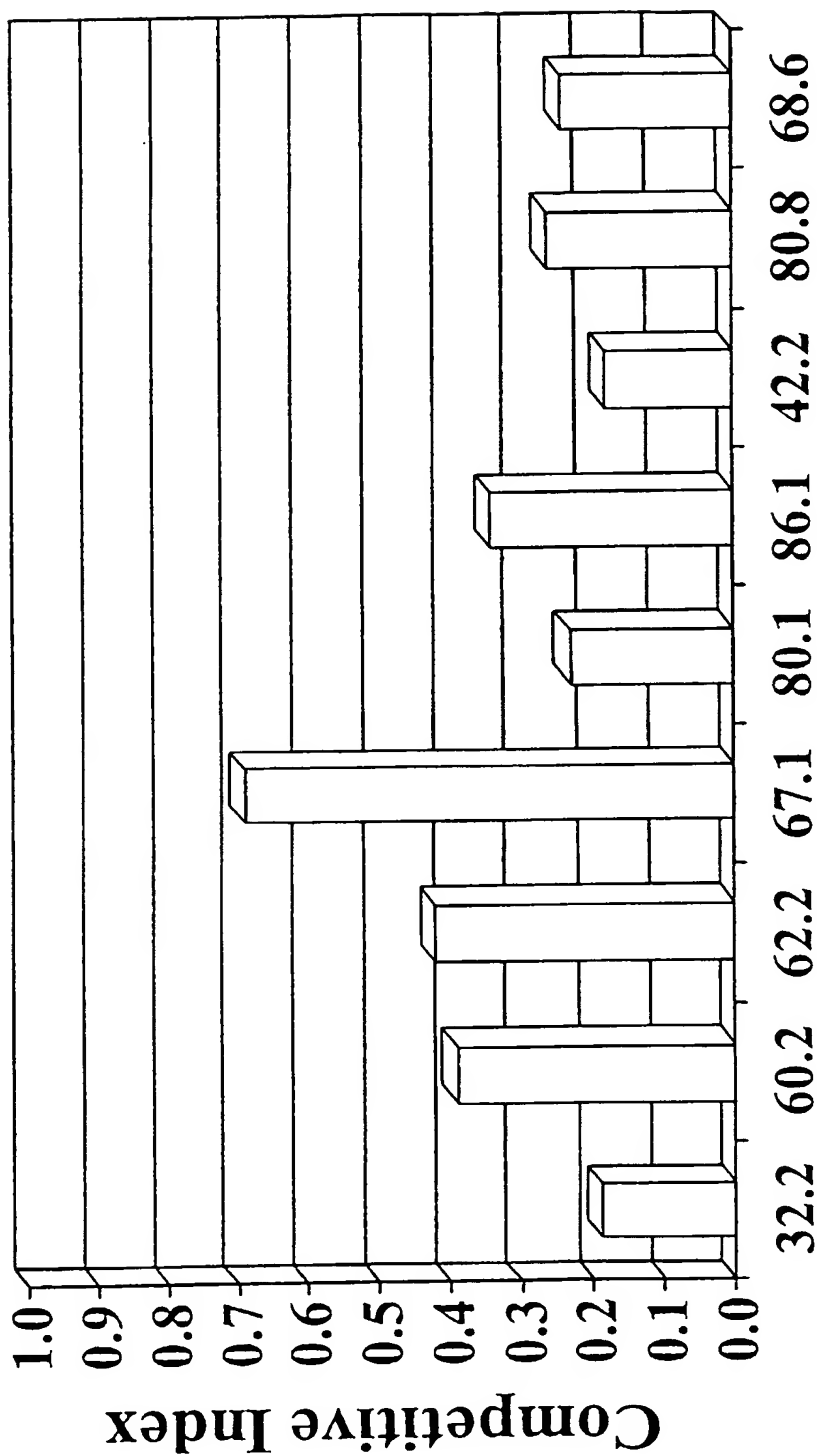


FIG. 11B

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Competitive Index: Mutant/Wild type



Mutant strain

FIG. 12

Survival Curve: *M. marinum* Strains in Goldfish

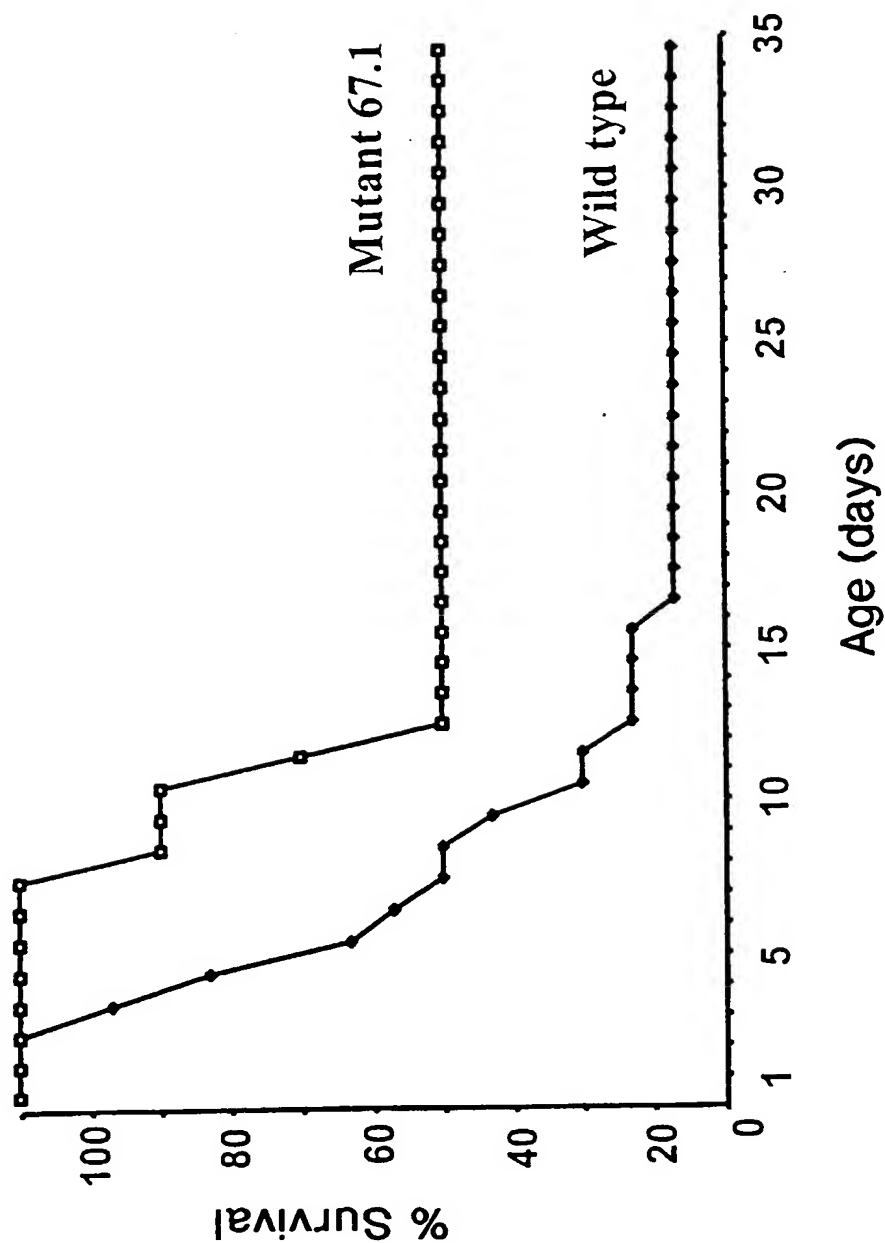


FIG. 13

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Survival Curve: *M. marinum* Strains in Goldfish

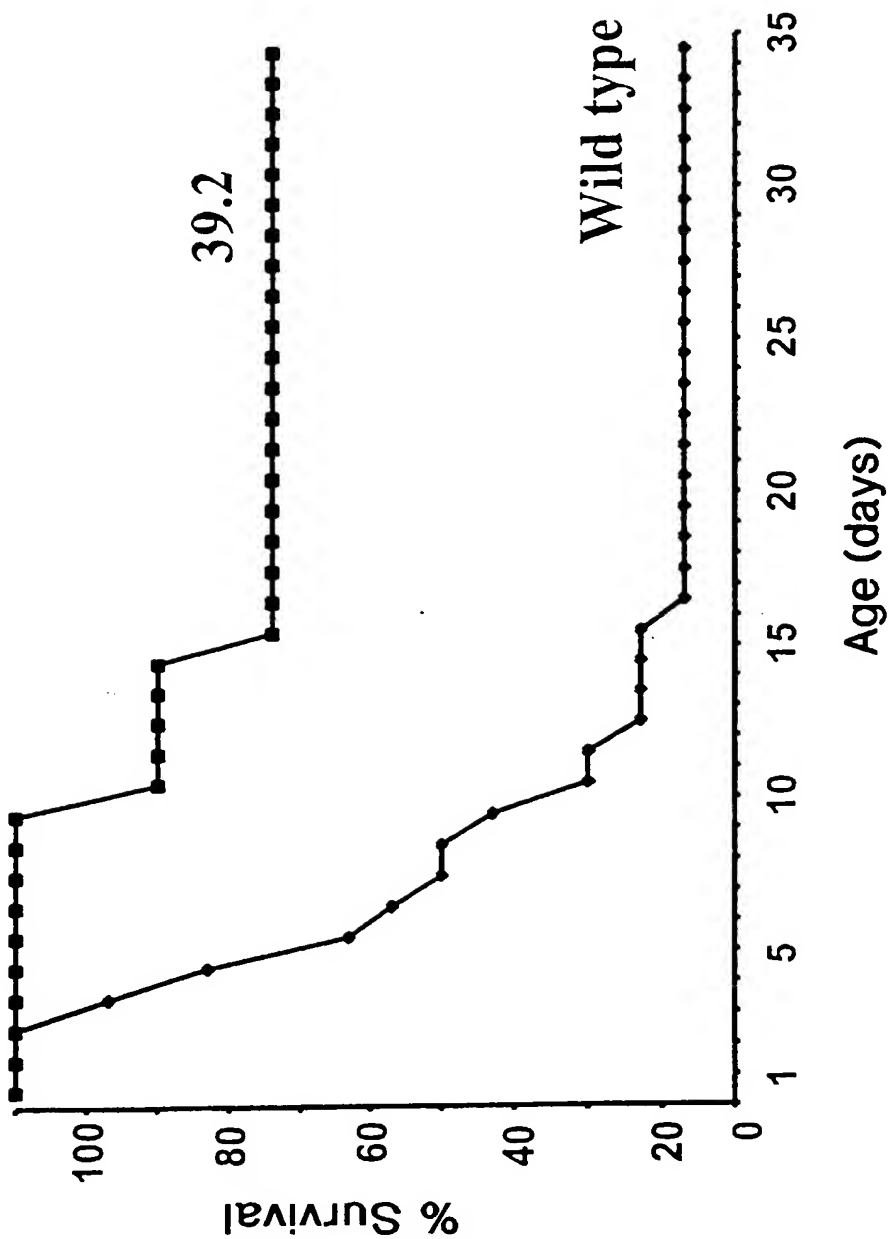


FIG. 14

Survival Curve: *M. marinum* Strains in Goldfish

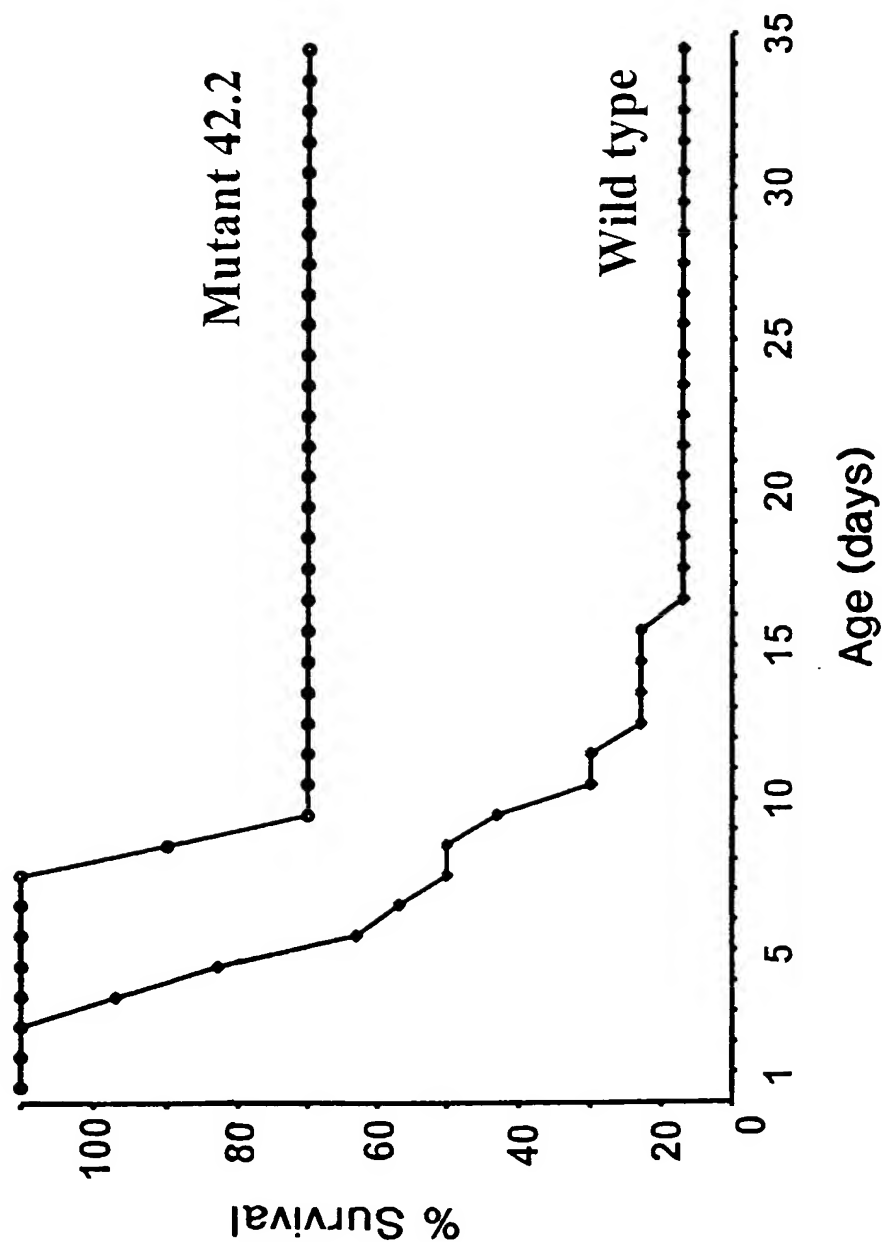


FIG. 15